

# How to Work with Argonne

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# Topics

- Where do we begin?
  - Understand the unique capabilities at Argonne
- Select the collaboration method
  - WFO, CRADA, User Facility Agreement
- Who do I talk to?
- Questions



# Argonne Focused on Industry Needs



- How can Argonne make my firm successful?

# Learn and leverage the unique capabilities at Argonne, such as:

- Cutting-edge simulation capabilities for engines, fuels, and fuel sprays
- State of the art dynamometer testing facilities
- Validations against high-fidelity data from APS and engine test cells at Argonne
- Combined with world-class research staff



# Vehicles or Methods of Collaboration:

- **Licensing**
  - Software to use Lab-generated software
  - Patents
- **DOE-FOAs, Grants, BAAs**
- **WFO**
- **CRADA**
- **User Facility Agreements**



# Work for Others - WFO

- Work For Others (WFO):
  - Refers to the performance of Work for non-DOE entities or the use of DOE facilities not directly funded by DOE appropriations
  - A WFO agreement is a subcontract for Argonne to perform certain tasks for others on a cost-recovery basis
  - Sponsor has no rights to Argonne's background Intellectual Property (IP), but Argonne will use it to your advantage to accomplish tasks
  - WFO provides access for non-DOE entities to highly specialized or unique DOE facilities, services or technical expertise, where private sector facilities are inadequate.
    - Subject to DOE Orders and DOE Manual 481.1-1A
    - DOE approval process for the Work in WFO
    - DOE approval process for IP and other Terms in WFO



# WFO - International Sponsors

**Includes Foreign owned or controlled – what can you expect?**

- Longer lead time:
  - Requires additional coordination for DOE HQ approvals
  - If patent waiver/proprietary results, additional DOE Program approval of Intellectual Property Terms is required
  
- We have many successful agreements and relationships with several international sponsors



# WFO Model Agreements

- WFO Federally Funded Model
  - Funding received via DOE-FOA; Grant/BAA; SBIR/STTR, etc..
- WFO – Class Waiver of DOE rights of Inventions
  - Privately Funded
- WFO – Waiver Declined of DOE rights of Inventions to the Sponsor
  - Privately-Funded





# Cooperative Research and Development Agreements

- Cooperative Research And Development Agreement (CRADA)
  - Refers to collaborative R&D project between Argonne and Industrial Partner
    - Argonne's work may be funded in part or in full by any combination of:
      - Industry Partners – There must be at least one
      - Federal agencies
      - Programmatic funds from DOE
    - Company's co-funding may be funds to Lab or "in-kind"
    - Shared R&D tasks, facilities
    - Participant may have access to Argonne's background IP
    - New IP resulting from the collaboration is shared by both parties
  - No funds may flow from Lab to Company
  - Subject to DOE Order 483.1A
    - DOE approval process for the Work/JWS for CRADA
    - DOE approval process for terms in CRADA



# CRADA Model IP

- Inventions:
  - Participant can elect title to Participant inventions under SOW
  - Argonne can elect title to Argonne inventions under the SOW
- Rights in Data:
  - Each Party can designate its generated data as Protected CRADA Information
  - Protected CRADA Information can be protected for 5 years (and licensed)



# What's needed to get work started?

- Agreed upon SOW
- If a small business: Pre-Agreement Certification
- For CRADA; Participant Data Sheet
- Signed Terms and Conditions Agreement
- Funding

*We will manage our internal requirements and coordinate approvals through DOE.*



# Sponsored research success stories

- DOE released a new short-form CRADA to enable quick collaborative research efforts with industry
  - \$500k maximum effort, no deviation from contract terms and conditions
- Argonne took advantage of the new model to reduce the process cycle time, historically 6-12 months
- Record cycle times with new short-form CRADA
  - Foreign Entity – 7 weeks from start to fully executed
  - US Entity – 3 week from start to fully executed
- Successful agreements with international organizations such as Korea Atomic Energy Research Institute (KAERI)



# User Facility Agreements

**APS** – Advanced Photon Source

**ALCF** - Argonne Leadership Computing Facility

**ATLAS** - Argonne Tandem Linear Accelerator System

**CNM** - Center for Nanoscale Materials

Includes the EMC – Electron Microscopy Center for  
Materials Research

**TRACC** - Transportation Research and Analysis Computing Center

- Online-information for registration and submission of User Proposals

<https://www-cms.anl.gov/user-facilities>



# Nonproprietary vs Proprietary

## NONPROPRIETARY RESEARCH

- Access to the User Facility is based on a peer-reviewed proposal process.
- *User may access the User Facility with or without collaboration of Argonne researchers.*
- Users provide sufficient information to ensure that each planned experiment can be performed safely.
- Argonne personnel provide appropriate safety training and oversight.
- Users are not charged for "machine time" *or potential agreed upon collaborative effort of Argonne researchers*; users may be charged for ancillary materials, supplies, and services obtained from the User Facility.
- Users must intend to publish their research results in the open scientific literature. Research results are available to the public.
- Users may retain title to their researchers' inventions, and Argonne retains title to its researchers' inventions; the Government retains a royalty-free license and some oversight of utilization efforts.
- *The experiment is not directed towards producing a specific commercial end result (e.g., marketable product).*

## PROPRIETARY RESEARCH

- Access to the User Facility is granted in an impartial manner; a peer-reviewed proposal system may or may not be used.
- *User may access the User Facility with or without limited support (non-collaborative) from Argonne personnel.*
- Users provide sufficient information to ensure that each planned experiment can be performed safely.
- Argonne personnel provide appropriate safety training and oversight.
- Users are charged for "machine time" *and limited support services (non-collaborative) from Argonne personnel* on a full cost recovery basis.
- Users may keep their research results private.
- Users may retain title to their inventions; Government rights are extremely limited.
- *If the experiment is proprietary and collaborative with Argonne researchers, a Cooperative Research And Development Agreement (CRADA) (or Work-For-Others (WFO)) would be appropriate instead of the User Agreement.*

*Note: changes from previous User Agreements are italicized.*



# Technology Development and Commercialization Division

*Strong, long term business collaborations  
begin with a solid relationship foundation*

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# Discussion

